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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,655	03/01/2000	Thomas C. Thompson		3209

7590 12/05/2002
Thomas C Thompson
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EXAMINER

GARCIA, ERNESTO

ART UNIT PAPER NUMBER

3679

DATE MAILED: 12/05/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

SK

Office Action Summary

Application No.

09/516,655

Applicant(s)

THOMPSON, THOMAS C.

Examiner

Ernesto Garcia

Art Unit

3679

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 September 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 March 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 34A and 35A in Figure 5. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the acute angled bends (claims 1 and 5), the acute angles (claims 3 and 4) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "a retrofit apparatus" is not provided in the specification.

Claim Objections

Claim 14 is objected to because of the following informalities:

regarding claim 14, this claim has a run-on sentence. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to

reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claim 1, line 9 of claim 1 is providing that the offset web has acute angled bends attached to said base web and said top web. This subject matter was not properly described in the application as filed. Attachment 1 shows applicant's invention describes angles, α , β , λ and π that are not less than 90 degrees nor acute (see attachment 2). Therefore, α , β , λ and π make angle bends that are not less than 90 degrees nor acute.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the limitation "retrofit connector" in line 1 is unclear. Is the connector retrofitted, i.e., furnished with new or modified parts? Furthermore, the limitation "said base web" in line 7 lacks antecedent basis since "a base web" has not been previously recited.

Regarding claim 2, the limitation "as a means" in line 3 is unclear. Is the applicant invoking 112(6), paragraph?

Regarding claims 3 and 4, it is unclear whether the first and the second generally horizontal bends are the acute angled bends or other angled bends. Furthermore, the limitation "having attachment", in lines 1 and 2 in each claim, is unclear.

Regarding claim 5, the limitation "said first and second acute angled bends" lack antecedent basis since "a first acute angled bend and a second acute angled bend" have not been previously recited in claim 5 or claim 1. Furthermore, the limitation "and blocking that stick out" in line 5 is unclear. The limitation "as an offsetting means" is unclear. Is the applicant invoking 112(6) paragraph?

Regarding claim 7, the limitation "said second acute angle bend" in line 3 lacks antecedent basis since "a second acute angle bend" has not been previously recited in claim 7 or claim 1.

Regarding claim 8, the limitation "forming rafter tabs" in line 2 is unclear whether the right angle bends form both the rafter webs as recited in line 6 of claim 1 and the rafter tabs at the same time. It appears that the rafter tabs should be the rafter webs instead.

Regarding claim 9, the limitation "said blocking webs" in line 1 lacks antecedent basis since "blocking webs" have not been previous recited in claim 9, claim 8 or claim 1.

Regarding claim 10, the limitations "said base plate" in line 1, "said rafter tabs" in line 2, "said blocking webs" in line 2, "said exterior wall" in line 4, "said underlying structural member" in line 5, "said roof rafter" in line 5, and "said frieze boards" in line 6 lack antecedent basis since "rafter tabs", "blocking webs", "an exterior wall", "an underlying structural member", "a roof rafter", and "frieze boards" have not been previously recited in claim 10 or claim 1. Furthermore, the limitation "to an existing house" is unclear whether the attaching means is in an existing house. The limitation "as a means" in line 3 is unclear whether applicant is invoking 112(6th), paragraph.

Regarding claim 11, the limitation "retrofit apparatus" is unclear. Is the apparatus retrofitted? Furthermore, the limitations "said base web" in line 7 and "said rafter tabs" in line 10 lack antecedent basis since "a base web" and "rafter tabs" have not been previously recited. Furthermore, the limitation "said sheathing tab" in line 17 and "said strengthening tab" in line 17 lack antecedent basis since "a sheathing tab" and "a strengthening tab" have not been previously recited.

Regarding claim 13, the limitation "bolt holes" in line 2 is unclear whether the holes are different of the same as the bolt holes recited in line 21 of claim 11. Furthermore, the limitation ", and having bolt holes" is unclear what feature of the invention has these bolt holes. Furthermore, the limitation "said holes" in line 5 is

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unclear whether these holes are the holes recited in lines 2 or 4 of claim 13, or line 21 of claim 11.

Regarding claim 14, the limitation "said apparatus below said roof" is unclear since claim 14 or claim 11 has not positively recited that the apparatus is below a roof.

Regarding claim 6, the claim depends from claim 5 and therefore is indefinite.

Regarding claims 12 and 14, the claims depend from claim 11 and therefore are indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1 and 3-7, as best understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Thompson, 6,094,880 (see marked-up attachment).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claim 1, Thompson discloses in Figure 10 a unitary connector comprising a base web **34A**, and an offset, angled, top web **34**. The top web **34** has generally right angle bends **A3** forming rafter webs. The base web **34A** and the top web **34** are connected by an offset web **20A**. The offset web **20A** has angled bends **A5** attached to the base web **34A** and the top web **34**.

Regarding claim 2, the base web **34A** has a generally flat, generally long-horizontal rectangular shape, and nail holes **A6**. Applicant is reminded that the holes **A6** are for retrofitting to the exterior wall, and into an underlying structural member.

Regarding claims 3, the offset web **20A** is attached to the base web **34A**.

Regarding claim 4, the offset web **20A** is attached to the top web **34**.

Regarding claims 5-7, these claims are impossible to examine due to ambiguities in the claim. Applicant is reminded that a recitation with respect to the manner in which an apparatus is intended to be employed does not impose any structural limitation upon the claimed apparatus, which differentiates it from a prior art reference disclosing the structural limitations of the claim. In re Pearson, 494 F.2d 1399, 181 USPQ 641 (CCPA 1974); In re Yanush, 477 F.2d 958, 177 USPQ 705 (CCPA 1973); In re Finsterwalder, 436 F.2d 1028, 168 USPQ 530 (CCPA 1971); In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967); In re Otto, 312 F.2d 937, 136 USPQ 458 (CCPA 1963); Ex parte Masham, 2 USPQ2d 1647 (BdPatApp & Inter 1987).

Response to Arguments

Applicant's arguments with respect to claims 1 and 3-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

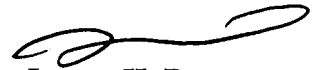
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernesto Garcia whose telephone number is 703-308-8606. The examiner can normally be reached from 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on 703-308-1159. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9326 for regular communications and 703-872-9327 for After Final communications. Any inquiry of a general nature or relating to the status of this

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application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.



Lynne H. Browne
Supervisory Patent Examiner
Technology Center 3600

E.G.

December 2, 2002

Attachments: one marked-up copy of applicant's invention;
one copy of Webster's definition of acute; and,
one copy of Thompson, 6,094,880.

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FIG. 2

PG 2

ac-ti-non \ak-tō-nān/ *n* [NL, fr. *actinium*] (1926): a gaseous radioactive isotope of radon that has a half-life of about 4 seconds

ac-tion \ak-shən/ *n* (14c): 1: the initiating of a proceeding in a court of justice by which one demands or enforces one's right; *also*: the proceeding itself 2: the bringing about of an alteration by force or through a natural agency 3: the manner or method of performing: *a*: the deportment of an actor or speaker or his expression by means of attitude, voice, and gesture *b*: the style of movement of the feet and legs (as of a horse) *c*: a function of the body or one of its parts 4: an act of will 5: *a*: a thing done: DEED *b*: the accomplishment of a thing, usu. over a period of time, in stages, or with the possibility of repetition *c* *pl*: BEHAVIOR, CONDUCT (unscrupulous ~s) 4: INITIATIVE, ENTERPRISE (a man of ~) 6: *a* (1): an engagement between troops or ships (2): combat in war (gallantry in ~) *b* (1): an event or series of events forming a literary composition (2): the unfolding of the events of a drama or work of fiction: PLOT (3): the movement of incidents in a plot *c*: the combination of circumstances that constitute the subject matter of a painting or sculpture 7: *a*: an operating mechanism *b*: the manner in which a mechanism or instrument operates 8: *a*: the price movement and trading volume of a commodity, security, or market *b*: the process of betting including the offering and acceptance of a bet and determination of a winner *c*: an opportunity for financial gain (a piece of the ~) 9: the most vigorous, productive, or exciting activity in a particular field, area, or group (they itch to go where the ~ is — D. J. Henahan)

ac-tion-able \ak-shə-nə-bəl/ *adj* (1591): subject to or affording ground for an action or suit at law — *ac-tion-ably* \-bəl/ *adv*

ac-tion figure *n* (1987): a small-scale figure usu. of a superhero used esp. as a toy

ac-tion-less \ak-shən-ləs/ *adj* (ca. 1817): marked by inaction: IMMOBILE

ac-tion painting *n* (1952): abstract expressionism marked esp. by the use of spontaneous techniques (as dribbling, splattering, or smearing) — *ac-tion painter* *n*

ac-tion potential *n* (1926): a momentary change in electrical potential (as between the inside of a nerve cell and the extracellular medium) that occurs when a cell or tissue has been activated by a stimulus

ac-ti-vate \ak-tə-vāt/ *vb* -vāt-ed; -vāt-ing *v* (1626): to make active or more active: *a* (1): to make (as molecules) reactive or more reactive (2): to convert (as a provitamin) into a biologically active derivative *b*: to make (a substance) radioactive *c*: to treat (as carbon or alumina) so as to improve adsorptive properties *d* (1): to set up or formally institute (as a military unit) with the necessary personnel and equipment (2): to put (an individual or unit) on active duty ~ *v*: to become active — *ac-ti-va-tion* \ak-tə-vā-shən/ *n* — *ac-ti-va-tor* \ak-tə-vā-tər/ *n*

activated carbon *n* (1921): a highly adsorbent powdered or granular carbon made usu. by carbonization and chemical activation and used chiefly for purifying by adsorption — *also* *activated charcoal*

activation energy *n* (1949): NEUTRON ACTIVATION ANALYSIS

ac-tive \ak-tiv/ *adj* [ME, fr. MF or L: MF *actif*, fr. L: *activus*, fr. *actus*, pp. of *agere* to drive; do — more at AGENT] (14c): 1: characterized by action rather than by contemplation or speculation 2: producing or involving action or movement 3: *a* of *a* verb form or voice: asserting that the person or thing represented by the grammatical subject performs the action represented by the verb (*hits in*, "he hits the ball"; *is ~*) *b*: expressing action as distinct from mere existence or state 4: quick in physical movement: LIVELY 5: marked by vigorous activity: BUSY (the stock market was ~) 6: requiring vigorous action, or exertion (~ sports) 7: having practical operation or result: EFFECTIVE (an ~ law) 8: *a*: disposed to action: ENERGETIC (look an ~ interest) *b*: engaged in an action or activity (an ~ club member) *c*: of a volcano: currently erupting or likely to erupt — compare DORMANT 2A, EXTINCT 1b *d*: characterized by emission of large amounts of electromagnetic energy (an ~ galactic nucleus) 9: engaged in full-time service esp. in the armed forces (~ duty) 10: marked by present operation, transaction, movement, or use (~ account) 11: *a*: capable of acting or reacting: reacting readily (~ nitrogen) *b*: tending to progress or to cause degeneration (~ tuberculosis) *c*: of an electronic circuit element: capable of controlling voltages or currents *d* (1): requiring the expenditure of energy (~ calcium ion uptake) (2): functioning by the emission of radiant energy (radar is an ~ sensor) 12: still eligible to win the pot in poker 13: moving down the line: visiting in the set — used of couples in contradances or square dances — *active* *n* — *ac-tive-ly* *adv* — *ac-tive-ness* *n*

active immunity *n* (Ca. 1903): usu. long-lasting immunity that is acquired through production of antibodies within the organism in response to the presence of antigens — compare PASSIVE IMMUNITY

active transport *n* (1963): movement of a chemical substance by the expenditure of energy through a gradient (as across a cell membrane) in concentration or electrical potential and opposite to the direction of normal diffusion

ac-tiv-is-m \ak-tiv-i-zəm/ *n* (1915): a doctrine or practice that emphasizes direct vigorous action esp. in support of or opposition to one side of a controversial issue — *ac-tiv-ist* \-vist/ *n* or *adj* — *ac-tiv-is-tic* \ak-tiv-i-s-tik/ *adj*

ac-tiv-i-ty \ak-tiv-i-tē/ *n* *pl* -ties (1530): 1: the quality or state of being active 2: vigorous or energetic action: LIVELINESS 3: natural or normal function: *a*: a process (as digestion) that an organism carries on or participates in by virtue of being alive *b*: a similar process actually or potentially involving mental function; *specif*: an educational procedure designed to stimulate learning by firsthand experience 4: an active force 5: *a*: a pursuit in which a person is active *b*: a form of organized, supervised, often extracurricular recreation 6: an organizational unit for performing a specific function; *also*: its function or duties

act of God (Ca. 1859): an extraordinary interruption by a natural cause (as a flood or earthquake) of the usual course of events that experience, prescience, or care cannot reasonably foresee or prevent

ac-to-my-o-sin \ak-tə-mi-ō-sən/ *n* [ISV *actin* + *-o-* + *myosin*] (1942): a viscous contractile complex of actin and myosin concerned together with ATP in muscular contraction

ac-tor \ak-tər/ *also* -tōr/ *n* (15c): 1: one that acts: DOER 2: *a*: one who represents a character in a dramatic production *b*: a theatrical performer *c*: one that behaves as if acting a part 3: one that takes part in any affair — *ac-tor-ish* \-tə-rish/ *adj*

act out *vt* (1611): 1: *a*: to represent in action (children *act out* what they read) *b*: to translate into action (unwilling to *act out* their beliefs) 2: to express (as an impulse or a fantasy) directly in overt behavior without modification to comply with social norms

ac-tress \ak-trəs/ *n* (1676): a woman who is an actor — *ac-tressy* \-trə-se/ *adj*

Acts \ak-ts/ *n* *pl* but *sing* in constr: a book in the New Testament narrating the beginnings of the Christian Church — called also *Acts of the Apostles*; see BIBLE table

ac-tual \ak-ch(ə)-wəl, -sh(ə)-wəl/ *adj* [ME *actuel*, fr. MF, fr. LL *actualis*, fr. L *actus* act] (14c): 1 *obs*: ACTIVE 2: *a*: existing in fact and not merely potentially *b*: existing in fact or reality (~ and imagined conditions) *c*: not false or apparent (~ costs) 3: existing or occurring at the time: CURRENT (caught in the ~ commission of a crime)

actual cash value *n* (ca. 1946): money equal to the cost of replacing lost, stolen, or damaged property after depreciation

ac-tual-i-ty \ak-ch(ə)-wəl-ē-tē, -sh(ə)-wəl-ē-tē/ *n* *pl* -ties (1852): 1: the quality or state of being actual 2: something that is actual: FACT, REALITY (possible risks which have been seized upon as actualities — L. S. Eliot)

ac-tu-al-ize \ak-ch(ə)-wəl-ī-zē, -sh(ə)-wəl-ī-zē/ *vb* -ized; -iz-ing *v* (1701): to make actual: REALIZE ~ *v*: to become actual — *ac-tu-al-iza-tion* \ak-ch(ə)-wəl-ī-zā-shən, -sh(ə)-wəl-ī-zā-shən/ *n*

ac-tu-al-ly \ak-ch(ə)-wəl-ē, -sh(ə)-wəl-ē/ *adv* (15c): 1: in fact or in fact: REALLY (hominally but not ~ independent — Karl Loewenstein) (won't ~ arrive for an hour) 2: in point of fact — used to suggest something unexpected (he could ~ read the Greek)

ac-tu-ar-i-al \ak-ch(ə)-wəl-ē-əl, -sh(ə)-wəl-ē-əl/ *adj* (1669): 1: of or relating to actuaries 2: relating to statistical calculation esp. of life expectancy — *ac-tu-ar-i-al-ly* \-ē-əl-ē/ *adv*

ac-tu-ary \ak-ch(ə)-wəl-ē-ē, -sh(ə)-wəl-ē-ē/ *n* *pl* -ar-ies [L: *actuarius* shorthand writer; alter. of *actarius*, fr. *actum* record — more at ACT] (1553) 1 *obs*: CLERK; REGISTRAR 2: one who calculates insurance and annuity premiums, reserves, and dividends

ac-tu-ate \ak-ch(ə)-wəl-ē, -sh(ə)-wəl-ē/ *vb* -ated; -at-ing [ML *actuatus*, pp. of *actuare* to execute; fr. L *actus* act] (1645): 1: to put into mechanical action or motion 2: to move to action *syn* see MOVE — *ac-tu-a-tion* \ak-ch(ə)-wəl-ē-shən, -sh(ə)-wəl-ē-shən/ *n*

ac-tu-ate \ak-ch(ə)-wəl-ē, -sh(ə)-wəl-ē/ *n* (Ca. 1864): one that actuates; *specif*: a mechanical device for moving or controlling something

act up *vi* (1903): 1: to act in a way different from that which is normal or expected: *a*: to behave in an unruly, recalcitrant, or capricious manner *b*: SHOW OFF *c*: to function improperly (this typewriter is *acting up* again) 2: to become active or acute after being quiescent (her rheumatism started to *act up*)

ac-tu-ity \ak-ch(ə)-wəl-ē, -sh(ə)-wəl-ē/ *n* *pl* -ities [MF *acuité*, fr. LL *acuitas*, fr. L: *acutus*] (1543): keenness of perception: SHARPNESS

ac-tu-ate \ak-ch(ə)-wəl-ē, -sh(ə)-wəl-ē/ *adj* [L: *aculeatus* having stings; fr. *aculeus* sting; fr. *acus*] (1875): relating to or being hymenopterans (as bees, ants, and many wasps) of a division (Aculeata) typically having the ovipositor modified into a sting

ac-umen \ak-kyū-mən, -a-kyū-mən/ *n* [L: *acumen*, *acumen*, lit., point; fr. *acutus*] (ca. 1580): keenness and depth of perception, discernment, or discrimination esp. in practical matters *syn* see DISCERNMENT

ac-um-i-nate \ak-kyū-mə-nət/ *adj* (1646): tapering to a slender point

ac-um-pure \ak-kyū-pure-shən, -a-kyū-pure-shən/ *n* (1958): SHIATSU

ac-u-punc-ture \ak-pŭŋk(ə)-chər/ *n* [L: *acus* + E: *puncture*] (1684): an orig. Chinese practice of puncturing the body (as with needles) at specific points to cure disease or relieve pain (as in surgery) — *ac-u-punc-tur-ist* \ak-pŭŋk(ə)-chə-r-ist/ *n*

acute \ak-yūt/ *adj* *acut-er*; *acut-est* [L: *acutus*, pp. of *acuerre* to sharpen, fr. *acus* needle; akin to L: *acer* sharp — more at EDGE] (14c): 1: *a* (1): characterized by sharpness or severity (~ pain) (2): having a sudden onset, sharp rise, and short course (~ disease) *b*: lasting a short time (~ experiments) 2: ending in a sharp point: *a*: being or forming an angle measuring less than 90 degrees (~ angle) *b*: composed of acute angles (~ triangle) 3: *a* of an accent mark: having the form ~ *b*: marked with an acute accent *c*: of the variety indicated by an acute accent 4: *a*: marked by keen discernment or intellectual perception esp. of subtle distinctions: PENETRATING (an ~ thinker) *b*: responsive to slight impressions or stimuli (~ hearing) 5: felt, perceived, or experienced intensely (~ distress) 6: seriously demanding urgent attention — *ac-ute-ly* *adv* — *ac-ute-ness* *n*

syn ACUTE, CRITICAL, CRUCIAL mean of uncertain outcome: ACUTE stresses intensification of conditions leading to a culmination or breaking point (an acute housing shortage). CRITICAL adds to ACUTE implications of imminent change, of attendant suspense, and of decisiveness in the outcome (the war has entered a critical phase). CRUCIAL suggests a dividing of the ways and often a test or trial involving the determination of a future course or direction (a crucial vote). *syn* see in addition SHARP

acy-clic \ak-si-klīk/ *adj* (1878): not cyclic; *a*: not disposed in whorls or cycles *b*: having an open-chain structure: ALIPHATIC (an ~ compound)

acy-clo-vir \ak-si-klō-vīr/ *n* [a- + *cycl-* + *virus*] (1979): a cyclic nucleoside C₈H₈N₆O₅ used esp. to treat the symptoms of the genital form of herpes simplex

ac-yl \ak-səl/ *n*, *often attrib* [ISV, fr. *acid*] (1899): a radical RCO— derived usu. from an organic acid, by removal of the hydroxyl from all acid groups — often used in combination

ac-yl-ate \ak-səl-āt/ *vt* -ated; -at-ing (1907): to introduce an acyl group into — *ac-yl-a-tion* \ak-səl-ā-shən/ *n*

ad \ad/ *n*, *often attrib* (1841): 1: ADVERTISEMENT 2: ADVERTISING

ad (1947): ADVANTAGE 4

ad- or **ac-** or **af-** or **ag-** or **al-** or **ap-** or **as-** or **at-** prefix [ME, fr. MF, OF, & L: MF, fr. OF, fr. L: *ad-* more at AT] 1: to: toward — usu. *ac-* before *c*, *k*, or *q* (accutaneous) and *af-* before *f* (affluent) and *ag-* before *g* (aggradation) and *al-* before *l* (aliteration) and *ap-* before *p* (apportion) and *as-* before *s* (assuasive) and *at-* before *t* (attune) and *ad-* before other sounds but sometimes *ad-* even before one of the listed

consonants (adsorb) the form *ad-* (adrenal)

ad- \ad, əd/ *adv* suffix

ad- *n* suffix [prob. fr. l or connection with]: 1

Ada \ā-də/ trademark language

ad-age \a-dij/ *n* [MF: say]; akin to Gk *ekē* s that embodies a comm

ada-glo \ə-dā-j(ē)-ō, (1724): at a slow tem

adagio *n*, *pl* -gios (17 adagio tempo 2: a t displaying difficult fea

Ad-am \a-dəm/ *n* [M man and father by Ev

Ad-am *adj* [Robert A being an 18th cent straight lines, surface

ad-a-mance \a-də-mā ad-a-man-cy v-mən(t) adam-and-eye a-d

ad-a-mant \a-də-mā adamas hardest met

ad-a-mant (diamond) formerly b unbreakable or extren

adamant *adj* (1923)

ad-a-mant *syn* s ad-a-man-time \a-də-mantinus fr: Gk *adal* of or having the qual

Adam's apple *n* (Ca. formed by the largest Adam's needle *n* (Ca

Adam's needle *n* (Ca mentosa) of coastal pi

adapt \ə-dapt, ə-vb to fit, fr. *aptus* apt, fit or situation) often t

adapt-ed-ness *n*

syn ADAPT, ADJUST, one thing into corre

adaptation *n* (18th cent correspondence or l

adaptation *n* (18th cent suggested yielding or

adaptation *n* (18th cent moderated his politic

adaptation *n* (18th cent bringing into acco

adaptation *n* (18th cent refused to conform

adaptation *n* (18th cent the demonstration c

adaptation *n* (18th cent to be incompatible

adaptation *n* (18th cent knew)

adapt-able \ə-dapt-*able* *syn* see

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

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ad-ap-ta-tion \ə-dap-ta-tion/ *n* *pl* -tations the at

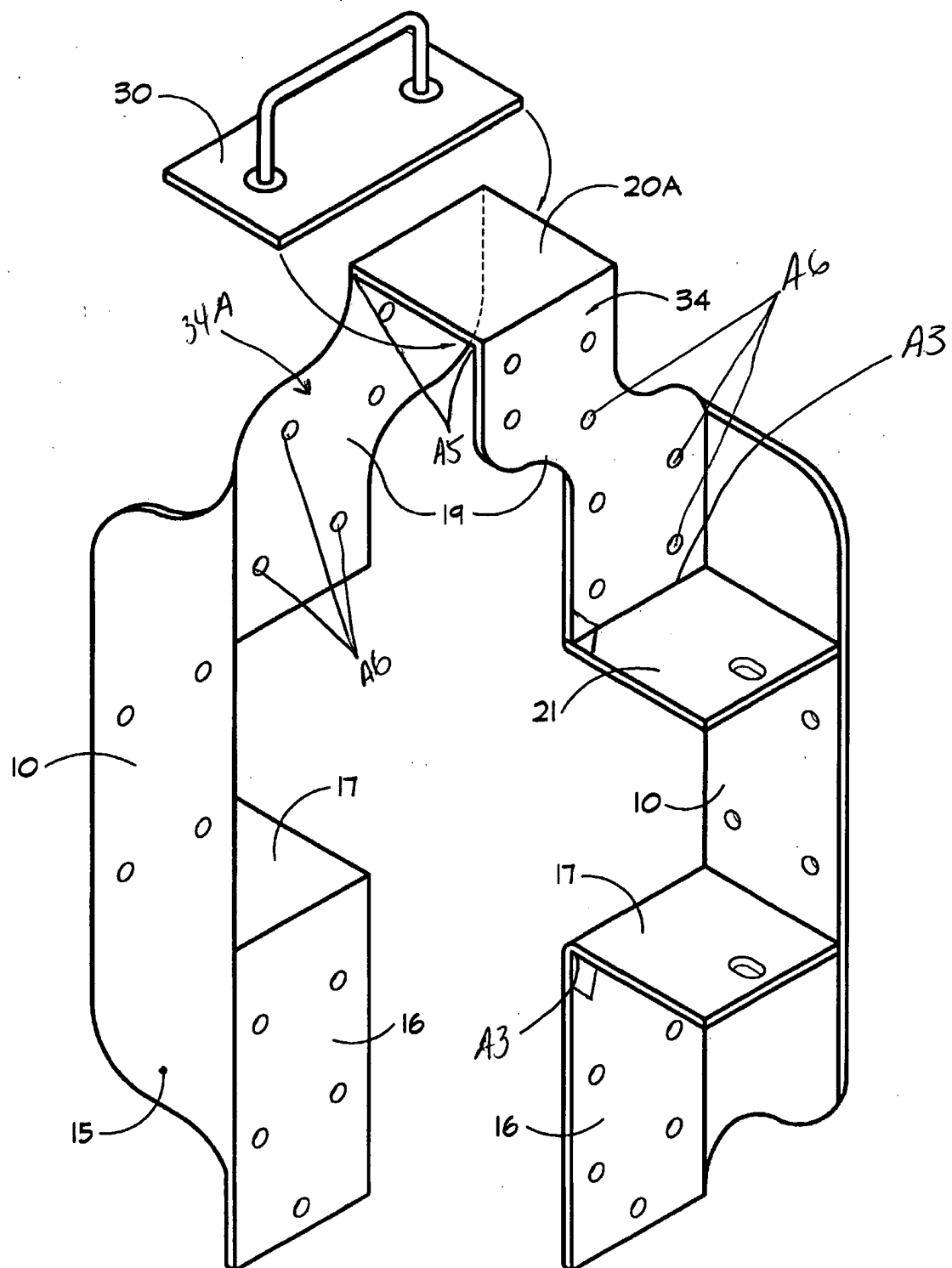


FIG. 10